

What is claimed is:

1           1. An optical disc storing:  
2           moving image data,  
3           at least two pieces of reproduction section information  
4           that specify a preceding reproduction section and a subsequent  
5           reproduction section on the moving image data;

6           a duplicated part which is obtained, for a modification  
7           purpose, by duplicating an end vicinity of the preceding  
8           reproduction section and a beginning vicinity of the  
9           subsequent reproduction section;

10          and a flag, if set to be on, indicates reproduction of  
11          a part before the end vicinity and a part after the beginning  
12          vicinity via the duplicated part, and if set to be off, indicates  
13          sequential reproduction of the preceding reproduction section  
14          and the subsequent reproduction section without via the  
15          duplicated part.

1           2. The optical disc of Claim 1,  
2           further including temporary section information which  
3           specifies the reproduction section included in the duplicated  
4           part,

5           wherein the reproduction section information is stored  
6           in correspondence with link information showing a link to  
7           the temporary section information.

1           3. The optical disc of Claim 1,  
2           wherein the moving image data is a compression-encoded  
3 picture data sequence, and the modification is performed in  
4 order to seamlessly reproduce last picture data included in  
5 the preceding reproduction section and first picture data  
6 included in the subsequent reproduction section.

1           4. The optical disc of Claim 1,  
2           wherein the moving image data is a compressed-encoded  
3 picture data sequence, and the modification is performed in  
4 order to realize a predetermined visual effect on picture  
5 data included in the preceding and the subsequent reproduction  
6 sections.

1           5. The optical disc of Claim 1,  
2           wherein the moving image data is a picture data sequence,  
3 and the reproduction section information includes pointer  
4 information which specifies beginning and ending points of  
5 a reproduction section, according to a time accuracy of a  
6 display period for a piece of picture data.

1           6. The optical disc of Claim 5, further including pointer  
2 information which specifies picture data immediately before  
3 the end vicinity and picture data immediately after the  
4 beginning vicinity.

1           7. The optical disc of Claim 5,  
2           wherein each piece of picture data is  
3           compression-encoded, according to a correlation between  
4           picture data before and after the piece of picture data, and  
5           the duplicated part include at least one of the groups  
6           consisting of compression-encoded picture data.

1           8. A recording apparatus for an optical disc which  
2           stores moving image data, comprising:  
3           receiving means for receiving, from an operator, an  
4           operation to specify a preceding reproduction section and  
5           a subsequent reproduction section on the moving image data;

6           duplicating means for duplicating, for a purpose of  
7           modification, an end vicinity for the preceding reproduction  
8           section and a beginning vicinity for the subsequent  
9           reproduction section, and writing the duplicated part onto  
10          the optical disc; and

11          writing means for writing a flag to the optical disc,  
12          wherein the flag, if set to be on, indicates reproduction  
13          of a part before the end vicinity and a part after the beginning  
14          vicinity via the duplicated part, and if set to be off, indicates  
15          reproduction of the preceding and subsequent reproduction  
16          sections without via the duplicated part.

1           9. The recording apparatus of Claim 8, further

2 comprising:

3 judging means for judging whether a sum of a size of  
4 the end vicinity and a size of the beginning vicinity is smaller  
5 than a predetermined size,

6 wherein the duplicating means writes the duplicated part  
7 onto the optical disc, only when the judging means has judged  
8 that the sum is smaller than the predetermined size.

1 10. The recording apparatus of Claim 8,

2 wherein the moving image data is a compression-encoded  
3 picture data sequence,

4 and the modification is performed in order to seamlessly  
5 reproduce picture data included in the preceding and  
6 subsequent reproduction sections,

7 and the duplicating means duplicates all of a plurality  
8 of pieces of picture data, that require modification, included  
9 in the preceding and subsequent reproduction sections, and  
10 writes the duplicated part to the optical disc.

1 11. The recording apparatus of Claim 8,

2 wherein the moving image data is a compression-encoded  
3 picture data sequence,

4 the modification is performed in order to realize a visual  
5 effect between picture data included in the preceding and  
6 subsequent reproduction sections, and

7 the duplicating means duplicates all of a plurality of  
8 pieces of picture data, that require modification, included  
9 in the preceding and subsequent reproduction sections, and  
10 writes the duplicated part to the optical disc.

1 12. The recording apparatus of Claim 8,  
2 wherein the duplicating means connects the duplicated  
3 parts together so that a continuous length of the connected  
4 part on the optical disc is larger than a predetermined length  
5 and writes the connected part onto the optical disc.

1 13. A reproduction apparatus for an optical disc which  
2 stores moving image data thereon, at least two pieces of  
3 reproduction section information that each specify a preceding  
4 reproduction section and a subsequent reproduction section  
5 on the moving image data, at least one duplicated part obtained  
6 by duplicating an end vicinity of the preceding reproduction  
7 section and a beginning vicinity of the subsequent  
8 reproduction section, and a flag,

9 the reproduction apparatus comprising:

10 reproducing means for 1) if the flag is set to be on,  
11 reproducing a part before the end vicinity of the preceding  
12 reproduction section and a part after the beginning vicinity  
13 of the subsequent reproduction section via the duplicated  
14 part, and 2) if the flag is set to be off, sequentially

15 reproducing the preceding reproduction section and the  
16 subsequent reproduction section without via the duplicated  
17 part.

1 14. The reproduction apparatus of Claim 13,  
2 wherein the optical disc stores visual effect  
3 information showing how to modify the duplicated part,  
4 and the reproduction apparatus comprises:  
5 modifying means for 1)reading out the duplicated part,  
6 and 2)modifying the duplicated part according to the visual  
7 effect information to obtain a modified part; and  
8 storing means for storing the modified part.

1 15. An optical disc storing:  
2 at least one piece of moving image data;  
3 a duplicated part obtained by duplicating a part of the  
4 moving image data;  
5 and a flag,  
6 wherein the duplicated part is to be modified,  
7 and the flag, if set to be on, indicates reproduction of before  
8 and after the moving image data via the duplicated part, and  
9 if set to be off, indicates reproduction of the moving image  
10 data without via the duplicated part.

1 16. The optical disc of Claim 15,

2 wherein the moving image data is a compression-encoded  
3 picture data sequence, and the modification is performed in  
4 order to realize a predetermined visual effect.

1 17. A program which makes a computer perform a  
2 procedure relating to an optical disc storing moving image  
3 data thereon, comprising:

4 a receiving step for receiving, from an operator, an  
5 operation to specify a preceding reproduction section and  
6 a subsequent reproduction section on the moving image data,

7 a duplicating step for duplicating, for a purpose of  
8 modification, an end vicinity for the preceding reproduction  
9 section and a beginning vicinity of the subsequent  
10 reproduction section, and for writing the duplicated part  
11 to the optical disc,

12 a writing step for writing a flag to the optical disc,

13 wherein the flag, if set to be on, indicates reproduction  
14 of a part before the end vicinity and a part after the beginning  
15 vicinity via the duplicated part, and if set to be off, indicates  
16 sequential reproduction of the preceding and subsequent  
17 reproduction sections without via the duplicated part.

1 18. A recording medium which can be read from a computer  
2 and which stores, thereon, the program of Claim 17.

1           19.   A program which makes a computer perform a  
2 reproduction procedure relating to an optical disc which  
3 stores moving image data, at least two pieces of reproduction  
4 section information that each specify a preceding reproduction  
5 section and a subsequent reproduction section on the moving  
6 image data, a duplicated part obtained by duplicating an end  
7 vicinity of the preceding reproduction section and a beginning  
8 vicinity of the subsequent reproduction section, and a flag,

9           the program comprising:

10          a referring step for referring to a flag;

11          a reproduction step for sequentially reproducing, if  
12 the flag is set to be on, a part before the end vicinity and  
13 a part after the beginning vicinity via the duplicated part,  
14 and subsequently reproducing, if the flag is set to be off,  
15 the preceding and subsequent reproduction sections without  
16 via the duplicated part.

1           20.   A recording medium which can be read from a computer  
2 and which stores, thereon, the program of Claim 19.

1           21.   A recording method for an optical disc which stores  
2 moving image data, comprising:

3          a receiving step for receiving, from an operator, an  
4 operation to specify a preceding reproduction section and  
5 a subsequent reproduction section on the moving image data;



6 a duplicating step for duplicating an end vicinity of  
7 the preceding reproduction section and a beginning vicinity  
8 of the subsequent reproduction section, and for writing the  
9 duplicated part onto the optical disc; and

10 a writing step for writing a flag to the optical disc,  
11 wherein the duplicated part is to be modified, and the  
12 flag, if set to be on, indicates reproduction of a part before  
13 the end vicinity and a part after the beginning vicinity via  
14 the duplicated part, and when set to be off, indicates  
15 sequential reproduction of the preceding and subsequent  
16 reproduction sections without via the duplicated part.

1 22. A reproduction method for an optical disc which  
2 stores:

3 moving image data;

4 at least two pieces of reproduction section information  
5 that each specify a preceding reproduction section and a  
6 subsequent reproduction section on the moving image data;

7 a duplicated part which is obtained by duplicating an  
8 end vicinity for the preceding reproduction section and a  
9 beginning vicinity of the subsequent reproduction section;

10 and a flag, further comprising:

11 a referring step for referring to a flag; and

12 a reproducing step for reproducing, if the flag is set  
13 to be on, a part before the end vicinity and a part after

14 the beginning vicinity via the duplicated part, and for  
15 sequentially reproducing, if the flag is set to be off, the  
16 preceding and subsequent reproduction sections without via  
17 the duplicated part.